

2. Perform reference measurement to verify the function of the measurement device.

- D. \$UUVLVWPHPHDXUHPHWRXOGUHDRSHDULWμ
- E. 8HDWRUWFLUXLWFWRXFKWKSUREHVWRHWWKUWKPHDXUHPHWRXOGUHDRSH ohms and volts.

Step 2a

- 5HFVRUBDQMDG voltage built up



Step 2b

- Lines intact and properly connected



NOTE: If no adapter is used, tests must be performed at the battery side and the inverter side of the system to test the entire HV system.

Correct PPE must be worn during all testing procedures.

3. Using two-pole volt meter measure at the battery side.
 - a. Perform measurement for HV+ and chassis ground.
 - b. Perform measurement for HV- and chassis ground.

4. Using two-pole volt meter measure at the inverter side.s
 - a. Perform measurement for HV+ and chassis ground.
 - b. Perform measurement for HV- and chassis ground.
 - c. Perform step a and step b with probe polarity reversed to allow the AC side of the HV system to be included in the measurements (see illustration).

The measurement must be performed four times to reliably check the insulation resistance for the entire system!

- | | | |
|---------------|--------------------|---------------|
| red => black | --measuring tips-- | red => black |
| 1. HV+ => GND | Change Polarity | 2. GND => HV+ |
| 3. HV- => GND | Change Polarity | 4. GND => HV- |

NOTE: If no adapter is used, tests must be performed at the battery side and the inverter side of the system to test the entire HV system.

5. Enter the measurement results into the safety protocol sheet.
 - a. If any readings are below acceptable standard, additional testing of individual components and harnesses will be required by HV specialist technician. Implement subtractive elimination of circuit parts to identify the root cause fault location.

NOTE: Correct PPE must be worn during all connecting procedures.

6. System reinitialization:
 - a. Reconnect all HV harnesses and connectors.
 - b. Reconnect in the reverse order of the specific disconnect procedure (one of the three).
 - c. Reconnect the low voltage connections (if necessary).
 - d. Reconnect the 12 V battery.
 - e. Affix the yellow status card.
 - f. Insert keys and turn on the ignition.
 - g. Make sure there are no fault codes present.
 - h. Perform a test drive.

7. Complete the safety protocol sheet and release the vehicle.

Vehicle initialization is now complete.